

REMARKS

Claims 1-13 are pending in this application, of which claims 10 and 13 have been amended. No new claims have been added.

Claims 1-9, 11 and 13 stand rejected under 35 U.S.C. § 103(a) as unpatentable over **APA** in view of U.S. Patent Publication US 2004/0100410 A1 to Tsai et al. (hereafter, "**Tsai et al.**").

Applicants respectfully traverse this rejection.

Tsai et al. discloses a built-in mobile phone antenna assembly including a patch antenna, a loop antenna disposed adjacent to the patch antenna, and a parasitic element disposed adjacent to both the patch antenna and the loop antenna and coupled parasitically to the patch antenna.

The Examiner urges that claim 3 of **Tsai et al.** teaches electromagnetic coupling via a space is well-known in the art.

Applicants respectfully disagree. Claim 3 of **Tsai et al.** states:

The built-in multi-band mobile phone antenna assembly as claimed in claim 1, wherein said patch antenna is provided with a signal feeding point thereon, which is adapted to be coupled electrically to the circuit board.

This passage discloses that the patch antenna is electrically coupled to a circuit board, but it does not suggest electromagnetic coupling via a space.

The antennas disclosed in **Tsai et al.**, namely, planar loop antenna 31 and patch antenna 32, handle different frequency ranges, and the fact that the separate antennas are separated by a space does not teach that a planar antenna and a superconductive high frequency circuit are electromagnetically coupled via a space, as recited in claim 1 of the instant application.

Accordingly, claim 13 has been amended to recite this distinction.

Thus, the 35 U.S.C. § 103(a) rejection should be withdrawn.

Claim 12 stands rejected under 35 U.S.C. § 103(a) as unpatentable over APA in view of “High-Temperature Superconducting Microwave Circuits” (date unknown), Zhi-Yuan Shen (hereafter, “Shen”).

Applicants respectfully traverse this rejection.

FIG. 4.3 of Shen discloses the loaded Q-values at 5 Ghz as a function of temperature for two resonators, where one was made of YbaCaO (123) with a $T_c=92^\circ\text{K}$. One resonator made of copper had a Q-value of 300 at 90°K .

Shen, like Tsai et al. discussed above fails to teach, mention or suggest the limitations of claim 1, from which claim 12 depends.

Thus, the 35 U.S.C. § 103(a) rejection should be withdrawn.

The Examiner has indicated that claim 10 would be allowable if rewritten in independent form.

Accordingly, claim 10 has been amended to be in independent form.

In view of the aforementioned amendments and accompanying remarks, claims 1-13, as amended, are in condition for allowance, which action, at an early date, is requested.

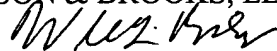
If, for any reason, it is felt that this application is not now in condition for allowance, the Examiner is requested to contact Applicants’ undersigned attorney at the telephone number indicated below to arrange for an interview to expedite the disposition of this case.

U.S. Patent Application Serial No. **10/790,769**
Response to Office Action dated May 30, 2006

In the event that this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. Please charge any fees for such an extension of time and any other fees which may be due with respect to this paper, to Deposit Account No. 01-2340.

Respectfully submitted,

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